Technical Data Sheet

Sustamid® 66 - ASTM

Typical characteristics

- Good dimensional stability
- High abrasion resistance
- high absorption of moisture of up to 2.7 % in standard atmosphere
- exceptionally high tensile strength and hardness over a broad temperature range
- good adhesive properties
- good weldability
- High continuous service temperature
- Good machinability
- Good sliding properties

Typical industries

- Mechanical Engineering Industry
- Electronics

	Test method	Unit	Guideline value
General properties			
Density	ASTM D792	g / cm^3	1,14
Water Absorption 24 hours	ASTM D570	%	1
Dissipation Factor	ASTM D150	1MHz	0,02
Water Absorption Saturation	ASTM D570	%	8,5
Mechanical properties			
Hardness	ASTM D785	Shore D	80
Tensile Strength at yield 73°F	ASTM D638	psi	12.000
Tensile Modulus	ASTM D638	psi	400.000
Elongation at Break	ASTM D638	%	40
Flexural Strength	ASTM D790	psi	15.000
Flexural Modulus	ASTM D790	psi	420.000
Compressive Strength	ASTM D695	psi	12.500
Rockwell Hardness	ASTM D785		85

Roechling Industrial Gastonia, LP
903 Gastonia Technology Parkway • 28034 Dallas/United States (US) • Tel. +1 704 922-7814
info.gastonia@roechling.com • www.roechling.com/industrial/rep-us

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	Test method	Unit	Guideline value
Rockwell Hardness	ASTM D785	R	121
Shear Strength	ASTM D732	psi	10.000
Izod Impact, Notched	ASTM D256	ft-lb/in	0,6
Coefficient of Friction, Dynamic			0,25
Thermal properties			
Thermal Conductivity		in/hr/ft^2 /°F	1,7
CTE, linear	ASTM D696	1/K	4,5x10^5
Melting Point	ASTM D3418	°F	500
Continuous Use		°F	220
Flammability, UL94		1/8 inch	HB
Deflection Temperature at 264psi	ASTM D648	°F	195
Deflection Temperature at 66psi	ASTM D648	°F	390
Electrical properties			
Dielectric constant	ASTM D150	1MHz	3,8
Dielectric strength	ASTM D149	V/mil	350
Surface resistivity	ASTM D257	Ω/cm	≥10^{13}
Compliance properties			
FDA			YES

The data stated above are average values ascertained by statistical tests on a regular basis. The data above are provided purely for information and shall not be regarded as binding unless expressly agreed in a contract of sale.

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